

**MARKED-UP COPY OF AMENDED SPECIFICATION AND CLAIMS**

**IN THE SPECIFICATION:**

Amend the specification as follows.

Delete the paragraph spanning page 5, lines 29-33 and insert the following therefor:

--The invention furthermore relates to an ATP/ADP translocator gene for use in one of the above-described plants with an Arabidopsis thaliana [nucleotide] amino acid sequence (EMBL Accession No. Z49227) encoding [the amino acid] by the nucleotide sequence shown in Fig. 1 (SEQ ID NO:1).--

**IN THE CLAIMS:**

Amend the claims as follows:

6. (Twice Amended) ATP/ADP translocator gene for use in a plant according to Claim 1 with an Arabidopsis thaliana [nucleotide sequence] amino acid sequence (EMBL Accession No. Z49227) [encoding the amino acid] encoded by the nucleotide sequence shown in Fig. 1 (SEQ ID NO:1).

Fig. 1: *Arabidopsis thaliana* cDNA corresponding to the coding region of the chloroplast ATP/ADP translocator 1 (EMBL Accession Number Z49227) (SEQ ID NO:1)

atggaagctgtgattcaaaccagagggcttctctttacccaccaaaccatcgagtgagaagcca  
actcagccttcccatggctaaagcagagactttcgccggaagccaagaaatctacatgggtgtct  
ctatcctttaacgggcacaagaaattcaaacccttgagccaaccctgcatgggatttcgattcccaca  
aagagagaagcaccgagttcatatgcaaggcggagggcgggctgctggcgacggagctgtcttcg  
gcgaagcgattccgcagctgtttagcctcgcggaagatttcgggtgtggaggtgcaacctgaaaaa  
gattatcccttaggattgatgttctttgtattctttcaattacacaattctgaggatacaaaggatgtctg  
gtgtgacggcgaaaggaagttctgctgagattatacctttctgaagacttgggtgaatcttctatggc  
catgggttatgtctctacactaaactctccaatgttctctccaagaaggctctgtttacactgttattgtc  
ccttcatcatctactttgggggctttggttcgtcatgtaccctctcagcaactatattcacccggaagctct  
cgcagataagctccttacaaccctcgcccaagattcatgggtcctattgcaatattgcggatttgaggtt  
tctgtttgtttatgttatggctgagctttgggtagtggtggtctcagttctcttctggggcttgctaactcag  
atcacaactgtggatgaagccaagaaattctatcctttgttcggcattggagccaatgttgactgatttc  
tcaggaagaaccgtgaaatacttcttaacttgagaaagaatcttggctctggagttgacggcagtttcg  
ttgaaagccatgatgagcattgtggtgggaatgggactcgcattgtctctctattggtgggtcgaataga  
tatgttctctccaaccgtagcaagaacaagaaggagaaaccgaagatgggaacgatggaaag  
cttgaagttcttggtatcatcaccatacattagagatcttctactttagtgggtggcatacggattagtagta  
atctgttgaagtcacatggaaatcaaagcttaaagctcagttccctagcccgaatgagtactcagcatt  
tatgggagcattctcaacctgcacgggtgttgaacattcacaatgatgcttctcagccaatacgtattca  
ataagtatggtggggagtagctgcaaagatcaccccaactgttctgctattgactggtgttgcgttctct  
ctctaattattgttggcgcccatcgcaccactgttgccaagcttggtatgacaccgctacttgcagctgt  
gtatgtcgggtgcccttcagaatatcttcagcaagagtgcgaagtacagcttgttcgaccttgcaaagaa  
atggcctatatcccatggatgaggacaccaagggttaaaggcaaagctgcgattgacgtggtctgcaa  
cccattaggaaaaatcagggggagctttaatacagcagttcatgatcttatccttggatcactagcgaatt  
caacgccgtatctaggaatgatctgttggttattgtcactgcgtggttagctgcagctaagtcgtggag  
ggacagttcaacagcttgcgtctgaagaagagcttgagaaggaaatggagagagcttcatcggtga

664597

Z49227) (SEQ ID NO:1)

atggaagctgtgattcaaacagagggcttctcttttaccaccaaacccatcgagagtgaagcca  
acttcagccttcccatggcttaaagcagagacttttcgccggaagccaagaaatctacatgggtgtct  
ctatcctttaacgggcacaaagaaattcaaacctttgagccaaccctgcatgggatttcgattcccaca  
aagagagaagcaccgagttcatatgcaaggcggaggcgcggtgctggcgacggagctgtcttcg  
gcgaagcgattccgcagctgtgtgtagcctcgcggaagattttcggttggagggtgcaacctgaaaaa  
gattatcccttaggattgatgttctttgtattctttcaattacacaattctgagggatacaaaggatgtcttg  
gtggtgacggcgaaaggaagtctgctgagattatacctttctgaagacttgggtgaatcttcttatggc  
cattgggtttatgctcctctacactaaactctccaatgttctctccaagaaggctctgtttacactgttatgtc  
cctttcatcatctactttgggggctttggttcgcatgtaccctctcagcaactatattcaccgggaagctct  
cgcagataagctccttacaaccctcgcccaagattcatgggtcctattgcaatatggcgatttggagtt  
tctgtttgtttatgttatggctgagccttggggtagtgtggtggtctcagttctctctggggctttgctaactag  
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tcaggaagaaccgtgaaatacttcttaacttgagaaagaatcttggtcctggagttgacggcagtttcg  
ttgaaagccatgatgagcattgtgtggtgggaatgggactcgcatthgtctctctattggtgggtcgaataga  
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cttgaagttcttggtatcatcaccatacattagagatcttgctactttagtgggtggcatacgggtattagtatca  
atcttgtggaagtcacatggaaatcaaagcttaagctcagttccctagcccgaatgagtactcagcatt  
tatgggagcatttcaacctgcacgggtgttgcaacattcacaatgatgcttctcagccaatacgtattca  
ataagtatggttggggagtagctgcaaagatcaccccaactgttctgctattgactgggtgttgcgttctct  
ctctaataattgtttggcgggccattcgcaccacttgttgccaagcttggatgacaccgctacttgcagctgt  
gtatgtcgggtgcccttcagaatatcttcagcaagagtgccaagtacagcttgttcgaccttgcaaagaa  
atggcctatatcccatggatgaggacaccaagggttaaaggcaaagctgcgattgacgtggtctgcaa  
cccattaggaaaaatcagggggagctttaatacagcagttcatgatcttatcctttggatcactagcgaatt  
caacgccgtatctaggaatgatcttgttggttattgtcactgcgtggttagctgcagctaagtcgctggag  
ggacagttcaacagcttgcgtctgaagaagagcttgagaaggaaatggagagagcttcatcgggtga

Fig. 2: Solanum tuberosum cDNA corresponding to the coding region of the chloroplast ATP/ADP translocator 1 (EMBL Accession Number Y10821) (SEQ ID NO:2)

atggaagggtgtttacaaacaagaggggtcttcttgccttctaaacccaaaatcaaggcttttaccat  
 tgcctcaaggggtctaaaggaacagatcaattcttaagtagttaaagcctaatacctctaatgggggtt  
 ctttatcttcaaatgggttcaaaaagttcaaggcttgacacaaagcctcagttgttggccaaaagaag  
 aggtgtttccaatatgcaaagctgaggctgctgctgctgctggtgcagctgatggacagccacttttgtt  
 gaaaaggagcaacctaagttatggggattgaactgtgaccttaagaaaattataccacttggggcg  
 atgttctttgtatctgttaattatacaatccttagggatactaaaggatgtgttggttgaacagctaaaggg  
 tccagtgtgagattatcccttctgaaaacttgggtgaattgcctatggctattggattcatgctttgtac  
 acaaagttggctaagtgtgtgcaaaggaggctcttttatactgttatactcctttattgcattctttggggc  
 gtttggtttgtttgtatcctctiagcaattacttccacctacagcttttgcgtataagcttctcaatacccttg  
 tccaagattcttggaccaattgctattctgaggatctggagtttctgctgttctatgtcatggctgagcttg  
 gggaaagtgtggtgttctagctactctttggggatttgcatacagatcacgactgtcgatgaggctaaga  
 gattctatcctttgttggacttggagcgaatgtgtctcttatttctctggtcgacagtgaaagtactttctag  
 ctgagaagctcttaggtcctggagttgatggttgggctatctccctgaaaggaatgatgagtattgtgt  
 gatgatgggtggggcaatctgttctttactggtgggtgaatagaaatgttgctctcccaactcgtagcaa  
 gaagaagaaggtaaaacctaacatgaccacaatggagagctgaagttcttggctcttcaaaatata  
 cagggatcttccacattggtttagcatatggcattagatcaacctgttgaagttacatggaagtcaa  
 agctcaaagctcagttcccaagcccaatgaatactcctcattcatgggtgacttctcaactgctactgg  
 aatagcaacttccaatgatgtgttaagtcaatggatttgcacaagtatgggtggggagcagcagcc  
 aagataacacctacagtcttgcctaccggagtgttctctccctgctttgttggggcacctctagc  
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 agtaagagtgcaaaagtatagtttggaccctgcaaagaaatggcctacattccttggatgaggaca  
 ccaagggttaaagggaaggcagcaatcgatgtgtctgcaatccactgggaaagtctggaggagcttgg  
 atacaacagttcatgatttggacttgggtcacttgcagctcgacacctaccttggcggtgtgtcttagt  
 aattgttctgcatggttgggagcagccaagtcttggatggacagttcactcaattacgccaagaagaa  
 gatcttgagaaggaaatggagagagcatcggtgaagatccctgtcgtgtctcaaaatgaaaatggaa  
 atggtcctctctcaagtgagtcactaaatcccgtggaggtgactctaccaacgcttcatcggaacc  
 ctctccccaaggagcctgtaa